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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/065,772 11/18/2002		Hwang Choe	24-NS-6042	2406		
23465	7590	01/09/2003				
JOHN S. BI	EULICK		EXAMINER			
ONE METRO		EASDALE, LLP .N SQUARE	RICHARDSON, JOHN A			
SUITE 2600 ST LOUIS, N	4O 6310	2-2740	ART UNIT	PAPER NUMBER		
01 20 010,1		/		3641		
				DATE MAILED: 01/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Commons	10/065,772	CHOE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		John Richardson	3641					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)[Responsive to communication(s) filed on 18 N	lovember 2002 .						
2a)□	<u> </u>	s action is non-final.						
3)	· <u> </u>							
Disposition of Claims								
4)🖂	Claim(s) 1 to 27 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)[Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.							
8)🖾	Claim(s) 1 to 27 are subject to restriction and/o	r election requirement.						
Application Papers								
9) 🗌 .	9) The specification is objected to by the Examiner.							
10) 🔲 -	The drawing(s) filed on is/are: a)□ accep	ted or b)⊡ objected to by the Exar	miner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)[_]	The proposed drawing correction filed on		ved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)					

Art Unit: 3641

Page 2

DETAILED ACTION

Election / Restriction

- 1). Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1 to 22, drawn to an apparatus, classified in class 376, subclass 352.
 - II. Claims 23 to 27, drawn to a process, classified in class 376, subclass 373.

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process as claimed can be practiced by another materially different apparatus, such as a reactor coolant recirculation means comprising motorized recirculation pumps located external to the reactor pressure vessel, and variable numbers of jet pumps located internal to the reactor vessel.

2). Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 3641

3). Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Page 3

- 4). Upon election of any of the inventions set forth in I, II above, the applicant is further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are considered to be generic.
- R. The embodiment wherein the number of fuel regions is two (as depicted for example in Figure 5).
- S. The embodiment wherein the number of fuel regions is three (as depicted for example in Figure 4).
- T. The embodiment wherein the number of fuel regions is more than three (as stated for example in the specification, page 7, line 29)

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Art Unit: 3641

Page 4

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5). Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Richardson whose telephone number is (703) 305 0764. The examiner can normally be reached on Monday to Thursday from 7.00 AM to 4.30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306 4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 305 7687.

Art Unit: 3641

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 1113.

John Richardson, PE, January 06 2003.

MIGNAEL OFFICHE
SUPERVISORY DATES EXAMINER